

Editors

Prof. M. Flytzani-Stephanopoulos
 Department of Chemical and
 Biological Engineering
 Tufts University
 4 Colby St. Medford, MA 02155
 E-mail: mflytzan@tufts.edu

Prof. X. Verykios
 Dept. of Chemical Engineering
 University of Patras
 GR 26504 Patras
 Greece
 E-mail: verykios@rea.chemeng.upatras.gr

Prof. I.-S. Nam
 Department of Chemical Engineering
 Pohang Univ. of Science & Technology
 Hyoja San 31 Nam-gu
 Pohang, Republic of Korea
 E-mail: isnam@postech.ac.kr

Associate Editor

Prof. Hiromi Yamashita
 Division of Materials and Manufacturing
 Science
 Graduate School of Engineering Osaka University
 2-1 Yamada-oka, Suita Osaka 565-0871
 Japan
 E-mail: yamashita@mat.eng.osaka-u.ac.jp

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- New catalytic routes and processes for the production of clean energy, such as in hydrogen generation via catalytic fuel processing; and new catalysts and electrocatalysts for fuel cells
- Catalytic reactions in which wastes are converted to useful products
- Clean manufacturing replacing toxic chemicals with environmentally friendly catalysts
- Scientific aspects of photocatalytic processes and basic understanding of photocatalysts as applied to environmental problems
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